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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/936,047

02/13/2002

Norbert Becker

3286-0171P

7826

7590

12/13/2005

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EXAMINER

TRUONG, CAM Y T

ART UNIT

PAPER NUMBER

2162

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/936,047

Applicant(s)

BECKER ET AL.

Examiner

Cam Y T. Truong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Applicant has amended claims 1, 2, 9, 10 and canceled claims 17-18 in the amendment filed 7/27/2005

### ***Response to Arguments***

2. Claims 1-16 are pending in this Office Action.

Applicant's arguments filed January 7/27/05 have been fully considered but they are not persuasive for the following reasons.

Applicant argues on pages 6-8 that Weinberg does not teach automation technology; wherein the respective automation object can be worked on by a number of users in parallel to create the automation solution in automation technology".

In response to applicant's argument on pages 6-8, Weinberg does not teach an automation technology. Weinberg teaches as a site graph object in object model of automation Astra corresponds generally to a map of a web site. The site graph includes nodes and links. The site graph object is represented as an automation technology (figs. 7&8, col. 19, lines 7-10; col. 10, lines 25-26).

In response to applicant's argument on pages 6-8, Weinberg does not teach "wherein the respective automation object can be worked on by a number of users in parallel to create the automation solution in automation technology". Weinberg teaches larger numbers of concurrent visitors access the web site on web servers via Internet or Intranet (fig. 7, col. 32, lines 57-58). Bentley teaches that projects are managed as a single unit by the CMS and are stored in a project database, generally on a networked server, so that concurrent access can be granted to multiple users of the project. To

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initiate a user session, a user executes a query of the project database to extract a subset of the project from the project database into a local database. The extraction is considered a long-term transaction to the project database such that during the user session no further interaction with the project database is required. If changes or additions are made to the extracted model objects during an editing session, such as changes and additions may be posted to the project database at the end of the user session (col. 4, lines 60-67; col. 5, lines 1-10).

In view of the above, the examiner contends that all limitations as recited in the claims have been addressed in this Action.

For the above reason, examiner believed that rejection of the last office action was proper.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1 and 9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The added limitation "each automation object realizing a partial automation solution; a description of technological functionality of the respective automation object; wherein the respective automation object can be worked on by a number by a number of users in parallel to create the automation solutions in automation technology" in claims 1 and 18 on page 2, line 3-16, page 3, lines 3-4 and page 4, lines 3-4 are not supported by the specification. Applicant is advised to amend the claims by deleting the added limitations or amend the specification to support to the added limitation in the claims. Applicant is also reminded that no new matter should be added.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weinberg et al (USP 5974572) in view of Bentley et al (or hereinafter "Bentley") (US 5987242).

As to claim 1, Weinberg teaches an automation system for creating an automation solution in automation technology (col. 7, lines 45-49) comprising:

" a plurality of automation objects, each automation object realizing a partial automation solution" as a site graph object in object model of automation Astra

corresponds generally to a map of a web site. The site graph includes nodes and links. The site graph object is represented as an automation object (figs. 7&8, col. 19, lines 7-10; col. 10, lines 25-26);

“a directory for storing object names of the automation object” as a directory tree or map stores node object names such as xunner, uparrow and Mercury Interactive Product of the site graph object. Node object names are represented as object names of the site graph object (figs. 3&8, col. 10, lines 64-66);

“ directory entries assigned to the respective object names, each directory entry including first information data as a reference to the respective automation object” as tree stores a leaf node name Xunner of parent node Mercuy Interactive product. The object node Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links and outbound links. The parent node Mercury Interactive product is connected to the object node Xunner by a link. This link, which, is a incoming link of object node Xunner, is represented as a reference to parent node Mercury Interactive product (fig. 3, col. 11, lines 9-23; col. 16, lines 42),

“second information date data as a description of technological functionality of the respective automation object ” as the node object name Xunner contains the outbound links. To display a node’s outgoing links, the user selects the node with the mouse and then clicks on the show outgoing links button 72 on the tool bar. Astra then displays all outgoing links from the node. The above information shows that the outgoing links of a node object is a description of functionality of the node object. The

outgoing links of the node object name xunner is represented as description of technological functionality (figs. 3&6, col. 11, lines 9-13; col. 17, lines30-33), and

“third information data as a description of an interface of the respective automation object” as The object node Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links and outbound links. The parent node Mercury Interactive product is connected to the object node Xunner by a link. Xunner.gif is represented as a description of an interface (fig. 3, col. 11, lines 9-23; col. 16, lines 42),

“wherein once entry into the directory has taken place, the respective automation object can be viewed by at least one of other users and tools” as in fig. 3, a user can view the site map including parent node object 44 and seven leaf node objects 48. One the map has been generated, the user can interactively navigate the map using various navigation tools of Astra GUI, such as scrolling controls 40 and 42 (col. 9, lines 54-57); and,

“wherein the object name of the respective automation object can be used to request a reference to the respective automation object” as node object name xunner of parent node object 44 is assigned to a leaf node of a tree. The node object name Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links or incoming links and outbound links. As illustrated in fig. 22, an analogous display format is used for displaying the incoming links to a node. Leaf node objects or children node object link back to their parents. The above information shows

an incoming link of the leaf node object name Xunner can be used to request as a reference to the site graph object (figs. 3&22, col. 11, lines 9-13; col. 17, lines 30-33).

Weinberg does not explicitly teach the claimed limitation “and wherein the respective automation object can be worked on by a number of users in parallel to create the automation solution in automation technology”.

Weinberg teaches larger numbers of concurrent visitors access the web site on web servers via Internet or Intranet (fig. 7, col. 32, lines 57-58). Bentley teaches that projects are managed as a single unit by the CMS and are stored in a project database, generally on a networked server, so that concurrent access can be granted to multiple users of the project. To initiate a user session, a user executes a query of the project database to extract a subset of the project from the project database into a local database. The extraction is considered a long-term transaction to the project database such that during the user session no further interaction with the project database is required. If changes or additions are made to the extracted model objects during an editing session, such as changes and additions may be posted to the project database at the end of the user session (col. 4, lines 60-67; col. 5, lines 1-10).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Frauenhofer's teaching of automatically creating channel map that contains a list of web servers, directories and other targets by using crawlers at the system server or Customer Intranet Server and allowing users to access the channel map to edit the pre-defined categories to support collaborative computing between users within a computer system network by an enterprise having a



plurality of objects and further allow many users to work together on objects simultaneously.

As to claims 2 and 10, Weinberg teaches the claimed limitation "wherein each directory entry includes fourth information data for listing the names of subcomponents of the respective automation object" as shown in fig. 6, the system displays a tree. A parent node 88 is displayed at the first level. The leaf node objects are displayed at second level and the second leaf node of the parent node object contains two another leaf node names that are displayed at third level of the tree. The leaf node names of the second leaf node are presented as the names of subcomponents of the at least one automation object. The parent node 88 is represented as the at least one automation object (fig. 6, col. 17, lines 28-32).

As to claims 3 and 5, Weinberg teaches the claimed limitation "wherein the automation system includes means for the automatic entry of an automation object into the directory" as Astra automatically scans the Web site and creates a graphic site map showing all of the URLs of the site and the links between these URLs. The layout and display method used by Astra for generating the site map provides a highly intuitive, graphical representation, which allows the user to visualize the layout of the site. As illustrated in fig. 4, a site map is displayed to a user. Each leaf node such as company and 10k.pdf is represented as entry of parent node mercury Interactive Online within site map or tree. Whenever the user selects a node in the upper window

76, the corresponding line in the list view window 78 is automatically highlighted. Each leaf node within site map or tree is represented as automation entry. The parent node Mercury Interactive Online is represented as automation object. The site map or tree is represented as the directory. Astra is represented as the automation system (col. 7, lines 45-49; col. 16, lines 60-63).

As to claims 4 and 6-8, Weinberg teaches the claimed limitation "wherein the automation system includes means for indicating that an automation object is no longer available" as a node object 45 of the site map in fig. 3, which is indicated a question mark and implies missing its URL, shows this object node no longer available (col. 10, lines 19-25). Also, any node object on a site map has a deleted URL as indicated in deleted URL box as shown in fig. 21 implies that node object is no longer available too. The node object 45 is represented as automation object and "that a copy of the object is being created" as to restore the visual web display view, the user clicks on the VWD button 73. The Visual Web Display View contains node objects. When the system restores the Visual Web Display View, the system restores node objects (fig. 1, col. 12, lines 45-46). Restore means to copy back (Computer Dictionary, page 410, col. Right, lines 1-4).

As to claim 9, Weinberg teaches an automation system for creating an automation solution in automation technology (col. 7, lines 45-49) comprising:

“a plurality of automation objects, each automation object realizing a partial automation solution” as a site graph object in object model of automation Astra corresponds generally to a map of a web site. The site graph includes nodes and links. The site graph object is represented as an automation object (figs. 7&8, col. 19, lines 7-10; col. 10, lines 25-26);

“a memory for storing object names of the automation objects as directory entries in a directory” as Astra of client computer automatically scans the Web site and creates a graphic site map or tree showing all of the URLs of the site and the links between these URLs. The layout and display method used by Astra for generating the site map provides a highly intuitive, graphical representation, which allows the user to visualize the layout of the site. As illustrated in fig. 3, a site map is displayed to a user. This site map stores node object names such as Xunner and Uparrow of parent node object 44. The node object name is stored in a leaf node of site map. The above information shows that client computer has included a memory for storing object names such as Xunner and Uparrow. The node object name is represented as object name. The site map or tree is represented as a directory (fig.8, col. 10, lines 64-66; col. 7, lines 45-49);

“wherein each object name includes, first information data as a reference to the respective automation object” as node object name Xunner of parent node object 44 is assigned to a leaf node of a tree. The node object name Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links or incoming links and outbound links. As illustrated in fig. 22, an analogous display format is used for displaying the incoming links to a node. Leaf node objects or children node object link

back to their parents. The above information shows an incoming link of the leaf node object name Xunner that is represented as reference to the parent node object 44 (figs. 3&22, col. 11, lines 9-13; col. 17, lines30-33),

“second information data as a description of technological functionality of the respective automation object” as the node object name Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links and outbound links. To display a node’s outgoing links, the user selects the node with the mouse and then clicks on the show outgoing links button 72 on the tool bar. Astra then displays all outgoing links from the node. The above information shows that the outgoing links of a node object is a description of functionality of the node object. The outgoing links of the node object name Xunner is represented as description of technological functionality (figs. 3&6, col. 11, lines 9-13; col. 17, lines30-33), and

“third information data as a description of an interface of the respective automation object” as shown in fig. 3, the parent node object 44 has many children node object 48; thus, it has many interfaces. The node object name Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif>. Xunner.gif is represented as a description of interfaces of parent node object 44 (fig. 3, col. 11, lines 9-13; col. 17, lines 30-33);

“wherein the respective automation object, when in the directory, is viewable by at least one of another user and tool” as in fig. 3, a user can view tree map including parent node object 44 and seven leaf node objects 48. One the map has been

generated, the user can interactively navigate the map using various navigation tools of Astra GUI, such as scrolling controls 40 and 42 (col. 9, lines 54-57); and,

“wherein the object name of the respective automation object is usable to request a reference to the respective automation object” as node object name Xunner of parent node object 44 is assigned to a leaf node of a tree. The node object name Xunner contains the URL i.e., <http://beebop:680/banners/xunner.gif> and the number of inbound links or incoming links and outbound links. As illustrated in fig. 22, an analogous display format is used for displaying the incoming links to a node. Leaf node objects or children node object link back to their parents. The above information shows an incoming link of the leaf node object name Xunner that is represented as reference to the parent node object 44 (figs. 3&22, col. 11, lines 9-13; col. 17, lines30-33).

Weinberg does not explicitly teach the claimed limitation “ wherein the respective automation object is usable by a plurality of users in parallel to create the automation solution in automation technology”.

Weinberg teaches larger numbers of concurrent visitors access the web site on web servers via Internet or Intranet (fig. 7, col. 32, lines 57-58). Bentley teaches that projects are managed as a single unit by the CMS and are stored in a project database, generally on a networked server, so that concurrent access can be granted to multiple users of the project. To initiate a user session, a user executes a query of the project database to extract a subset of the project from the project database into a local database. The extraction is considered a long-term transaction to the project database such that during the user session no further interaction with the project database is

required. If changes or additions are made to the extracted model objects during an editing session, such as changes and additions may be posted to the project database at the end of the user session (col. 4, lines 60-67; col. 5, lines 1-10).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Fraunhofer's teaching of automatically creating channel map that contains a list of web servers, directories and other targets by using crawlers at the system server or Customer Intranet Server and allowing users to access the channel map to edit the pre-defined categories to support collaborative computing between users within a computer system network by an enterprise having a plurality of objects and further allow many users to work together on objects simultaneously.

As to claims 11 and 13, Weinberg teaches the claimed limitation "wherein the automation system further comprises means for the automatic entry of an automation object into the directory" as Astra automatically scans the Web site and creates a graphic site map showing all of the URLs of the site and the links between these URLs. The layout and display method used by Astra for generating the site map provides a highly intuitive, graphical representation, which allows the user to visualize the layout of the site. As illustrated in fig. 4, a site map is displayed to a user. Each leaf node such as company and 10k.pdf is represented as entry of parent node mercury Interactive Online within site map or tree. Whenever the user selects a node in the upper window 76, the corresponding line in the list view window 78 is automatically

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highlighted. Each leaf node within site map or tree is represented as automation entry. The parent node Mercury Interactive Online is represented as automation object. The site map or tree is represented as the directory. Astra is represented as the automation system (col. 7, lines 45-49; col. 16, lines 60-63).

As to claims 12 and 14-16, Weinberg teaches the claimed limitation "wherein the automation system further comprises means for indicating that an automation object is no longer available" as a node object 45 of the site map in fig. 3, which is indicated a question mark and implies missing its URL, shows this object node no longer available (col. 10, lines 19-25). Also, any node object on a site map has a deleted URL as indicated in deleted URL box as shown in fig. 21 implies that node object is no longer available too. The node object 45 is represented as automation object and "that a copy of the object is being created" as to restore the visual web display view, the user clicks on the VWD button 73. The Visual Web Display View contains node objects. When the system restores the Visual Web Display View, the system restores node objects (fig. 1, col. 12, lines 45-46). Restore means to copy back (Computer Dictionary, page 410, col. Right, lines 1-4).

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Reiner (US 6289334).

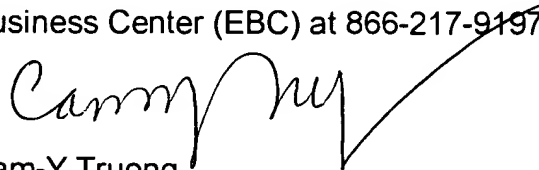
Maegawal (US 6098111)

***Contact Information***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is (571) 272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Patent Examiner  
Art Unit 2162  
11/22/2005